



**J.S. Wood Library  
Asbestos Survey Report**



**December 2014**

**Prepared For: City Of Saskatoon- Infrastructure Services Department**  
1101 Avenue P North, Saskatoon, SK.  
Attn: Brent Anderson

**Prepared By: Bersch & Associates Ltd.**  
**Project No. : B67SRL04**

## 1.0 EXECUTIVE SUMMARY

The survey of the J.S. Wood Library located at 1801 Lansdowne Ave in Saskatoon, Saskatchewan entailed the inspection of all accessible suspect asbestos containing material (ACM) located throughout the facility. Materials inspected included mechanical insulating material, vinyl floor covering, plaster material, drywall mud compound, ceiling tile and gasket material.

Bulk sample analysis results indicate the presence of “Chrysotile” asbestos within the J.S. Wood Library located in Saskatoon, SK. Please refer to **Appendix I for Bulk Sample Analysis** results. The recommended actions to be implemented in reference to the ACM identified are Removal/Replace and Management. Please refer to section 5 Asbestos Abatement Discussion for definitions. It should be noted that the recommendation of “Management” as part of the asbestos action plan is based upon the premise that renovations are not scheduled throughout the area that would impact the asbestos containing material present. ***Prior to any major renovation/demolition activity, a destructive investigation is recommended to identify any inaccessible ACM that is physically concealed or isolated in areas such as enclosed wall/ceiling/floor cavities and pipe chases. Further testing of drywall mud compound may also be required prior to renovation.*** Asbestos was detected in the following forms throughout the facility:

- **Vinyl Asbestos Floor Tile** is located on the Main Floor Library and Offices. The Asbestos Floor Tile is identified on the **Floor Plans** in **Appendix III** of this report.

Throughout the survey of the J.S. Wood Library the Asbestos Containing Materials were assessed and given a Priority Rating of One, Two or Three, with Priority One being the items requiring the most immediate attention. See the **Survey Spreadsheet Database** in **Appendix II** for a room-by-room account.

Bersch & Associates Ltd. implemented the use of doorjamb labels that are applied to all the doorjambs of the rooms containing asbestos within the facility. This permits anyone accessing the room to easily identify the ACM present without having to reference the written report. Legends providing explanation of the abbreviations used on doorjambs were placed on the backside of all maintenance/custodial doors within the facility. Employees and contractors will use the legend as a reference to identify ACM within the areas they are working.

## 2.0 INTRODUCTION

Bersch & Associates Ltd. was retained by the City of Saskatoon to conduct an Asbestos Survey and Hazard Assessment of the J.S. Wood Library located in Saskatoon, SK. The survey entailed the inspection of all accessible areas of the facility; including ceiling spaces and pipe chases. The purpose of the survey was to locate, identify and assess the condition of all Asbestos Containing Materials (ACM) located throughout the facility. This report gives a detailed account of the inspection results and our firm’s recommendations on control options to be implemented

to bring the facility in compliance with the Province of Saskatchewan Occupational Health and Safety Act and Regulations. Bersch & Associates Ltd. conducted the survey in December 2014. A review of this report shall be conducted with all trades that are entering the facility to perform maintenance or renovation activity. This will ensure they are familiar with the types and locations of asbestos-containing materials present and prevent any uncontrolled disturbance and/or possible exposure to asbestos.

### **3.0 METHODOLOGY**

Bersch & Associates Ltd. conducted the survey of the J.S. Wood Library in Saskatoon, SK in December of 2014. The primary documents for guidance and criteria in this survey were the Province of Saskatchewan “Occupational Health and Safety Act and Regulations, 1996”, Province of Saskatchewan “Managing Asbestos”, and the U.S. Environmental Protection Agency “Guidance for Controlling Asbestos Containing Materials in Buildings”. The USEPA document identifies factors associated with the “condition” and the “potential for disturbance or erosion” of asbestos containing materials (ACM). These factors help to determine potential for exposure to ACM and were used to make a qualitative evaluation of the material. It should be noted that the recommendation of “Management” Asbestos Abatement Action is based upon the premise that renovations are not scheduled in that area that will require disturbing or violating the asbestos containing material. In the event that renovations are scheduled that impact upon the areas of asbestos containing material then pre-removal of the asbestos containing materials may be necessary.

In total, sixteen (16) bulk samples of suspect asbestos-containing materials were collected throughout the facility. Chrysotile asbestos was identified within the samples collected. Refer to Appendix I for a copy of the Bulk Sample Analysis Report. All bulk samples collected were analyzed by Bersch & Associates Ltd. laboratory in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as <1% by volume.

### **4.0 RECOMMENDATIONS:**

Throughout the survey of the J.S. Wood Library the Asbestos Containing Materials were assessed and given a Priority Rating of One, Two or Three, with Priority One being the items requiring the most immediate attention. As a result, “Priority One” items were identified within the facility within the Main Library Book Shelving Area, Office 16, Washroom 18 and Office 19. Future planning should begin to address these areas as per the recommendations provided in the attached **Asbestos Survey Database found in Appendix II**. Priority Ratings for all other ACM identified is also found in the database on a room-by-room account.

## 5.0 ASBESTOS ABATEMENT DISCUSSION

Asbestos is a known carcinogen and is listed in the Province of Saskatchewan under the Occupational Health and Safety Appendix, Part V as a Hazardous Chemical Substance and any release of asbestos fibres into the atmosphere creates a potential health hazard. Although the mechanism and epidemiology of asbestos carcinogenesis is not yet well defined, accumulating evidence suggests the significance of exposure at even very low fibre concentrations and hence human exposure should be kept to a minimum. It should be noted however that asbestos is a natural mineral and a measurable background concentration can be detected in any location sampled (inside buildings, outside buildings, urban, rural, etc.). The recommendations of the report are therefore intended to keep the potential exposure to an absolute minimum with the knowledge that a zero exposure is not possible.

Asbestos containing materials have been used in a wide variety of applications. Of particular concern, is the group of so called friable products. A friable product is one that can be crumbled or reduced to powder or smaller fragments by hand pressure. Publications from the U.S.E.P.A. as early as 1977 have indicated the potential hazard of asbestos exposure in buildings containing these friable products. The two main uses of friable asbestos products are as spray insulation (thermal, acoustic or fireproofing) on deck and/or beams or as thermal insulation on piping or mechanical equipment. A large amount of non-friable asbestos-containing materials have also been used in building construction such as asbestos cement board and asbestos containing vinyl flooring.

The mere presence of a friable asbestos containing material does not imply that there is an actual presence of elevated airborne fibre. As numerous studies have indicated, elevated asbestos fibre levels are generally found when settled dust or the actual asbestos containing material itself is disturbed by maintenance, renovation, inadvertent contact or vibration. The factors considered in the Environmental Protection Agency (USEPA) exposure assessment (condition of material, water damage, activity, movement, exposed surface area, accessibility, friability and presence in an air stream) often give some indication of the likelihood of fibre release but are not in any way definitive in determining whether a hazard exists or not. That is, even if the most friable product exists in a building, elevated fibre levels will not likely occur unless there is some disturbance by physical contact, vibration or an air stream.

There are four possible approaches to control exposure to airborne asbestos once a friable material is identified in a building. These methods briefly are as follows:

- A) **Removal** - Asbestos material is removed and disposed of by burial and replaced by non-asbestos materials.
- B) **Encapsulation** - Asbestos material is coated with a bridging or penetrating sealant.
- C) **Enclosure** - Asbestos containing materials are separated from the building environment by barriers such as suspended ceilings or cladding materials.

**D) Deferred Action or Management and Custodial Control** - The Province of Saskatchewan Human Resources, Labor and Employment Branch under the Occupational Health and Safety Regulations publish a document outlining "The Management of Asbestos". In the guide for compliance, an action plan is outlined for management of the asbestos materials identified and in summary is:

1. Identification, which has been accomplished by this report.
2. Development of Written Handling Procedures for maintenance personnel or often arrangements are made for a qualified contractor to conduct the necessary removal or spot maintenance prior to the regular staff conducting maintenance.
3. Asbestos Abatement Awareness and Process Training if the regular maintenance personnel are required to conduct asbestos related activities.
4. Inspection on regular basis is conducted to determine the ongoing condition of the material. Sask. Occupational Health & Safety Regulations require an "annual" inspection of all "friable" asbestos materials by a competent person.

In the event renovations or maintenance is performed within areas containing asbestos materials, written procedures must be developed to conduct the activity or prior removal if the situation warrants.

## 6.0 REFERENCES

- .1 Province of Saskatchewan "The Occupational Health and Safety Act and The Occupational Health and Safety Regulations" Office Consolidation, December 1996.
- .2 Province of Saskatchewan Human Resources, Labor, and Employment "The Management of Asbestos" January, 1991.
- .3 USEPA, 1985. U.S. Environmental Protection Agency, "Guidance for Controlling Asbestos-Containing Materials in Buildings". Washington, DC: Office of Toxic Substances, USEPA.
- .4 Midwest Centre for Occupational Health & Safety St. Paul's, Minnesota – Asbestos Training For Inspectors & Management Planners
- .5 McCrone Research Institute Course Hayward California " Asbestos Identification"
- .6 Environment Management and Protection Act, Saskatchewan Environment, October 2002
- .7 Hazardous Substances and waste Dangerous Goods Regulations, Saskatchewan Environment, April 1989

**APPENDIX I**

**BULK SAMPLE ANALYSIS REPORT**

***BERSCH & ASSOCIATES LTD.***

December 6, 2014

City Of Saskatoon  
Infrastructure Services Department  
1101 Avenue P North  
Saskatoon, Sk.  
S7L 7K6

**ATTENTION: Brent Anderson**

**SUBJECT: Bulk Sample Analysis Report**

Please find attached the laboratory results for the bulk analysis of the samples collected throughout the J.S. Wood Library located at 1801 Lansdowne Ave in Saskatoon, SK. The samples were analyzed in our laboratory for the identification of asbestos.

The results for the bulk samples were obtained by examination in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as less than 1% by volume.

This test report relates only to the materials sent for examination and any use or extension of the information by the client of these results is the responsibility of the client. If any questions arise on the results of the attached information please contact me at 306 222 7477. Thank you for this opportunity of service!

Sincerely,

Brad Berschiminsky  
Bersch & Associates Ltd.  
File: B67BLL04

**Bersch & Associates Ltd.**

B67BAL04

Box 3568

Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.14****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: J.S. Wood Library - 1801 Landsdowne Avenue, Saskatoon, SK.**

| <b>NO.</b> | <b>DATE</b> | <b>SAMPLE INFORMATION</b>   | <b>ASBESTOS</b> | <b>%</b> | <b>ANALYST</b> |
|------------|-------------|---|-----------------|----------|----------------|
| 1          | 13-May-13   | Basement - Room 11<br>- 12" x 12" Perforated Ceiling Tile Above Suspended Ceiling | None Detected   |          | WB             |
| 2          | 13-May-13   | Main Floor - Room 16<br>- 9" x 9" Floor Tile, Gray With White Streak              | Chrysotile      | 1 to 5   | WB             |
| 3          | 13-May-13   | Exterior<br>- Parging On Front Entry Overhang                                     | None Detected   |          | WB             |
| 4          | 4-Dec-14    | Basement - Room 11<br>- White Finish Coat On Bulkhead Above Sink                  | None Detected   |          | WB             |
| 5          | 4-Dec-14    | Basement - Room 11<br>- Brown Coat Beneath Skim Coat On Bulkhead Above Sink       | None Detected   |          | WB             |
| 6          | 4-Dec-14    | Basement - Room 11<br>- 12" x 12" Floor Tile, Beige With Tan Brush Marks          | None Detected   |          | WB             |
| 7          | 4-Dec-14    | Basement - Room 7<br>- Gray Duct Joint Sealer                                     | None Detected   |          | WB             |



**Bersch & Associates Ltd.**

B67BAL04

Box 3568

Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.14****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: J.S. Wood Library - 1801 Landsdowne Avenue, Saskatoon, SK.**

| <b>NO.</b> | <b>DATE</b> | <b>SAMPLE INFORMATION</b>   | <b>ASBESTOS</b> | <b>%</b> | <b>ANALYST</b> |
|------------|-------------|---|-----------------|----------|----------------|
| 8          | 4-Dec-14    | Basement - Room 7<br>- Lineal Pipeline Insulation On Small Domestic Water Line Above Ceiling Access, Above Rolling Shelving | None Detected   |          | WB             |
| 9          | 4-Dec-14    | Basement - Room 7 - Dumbwaiter Service Room<br>- White & Brown Coat Of First Layer Of Ceiling Material                      | None Detected   |          | WB             |
| 10         | 4-Dec-14    | Basement - Room 7 - Dumbwaiter Service Room<br>- Drywall Material Of Second Layer Of Ceiling Material                       | None Detected   |          | WB             |
| 11         | 4-Dec-14    | Basement - Room 5<br>- White & Brown Coat Of Wall Plaster Above Suspended Ceiling At Entry To #2 Stairwell                  | None Detected   |          | WB             |
| 12         | 4-Dec-14    | Basement - Room 5<br>- 2' x 4' Suspended Ceiling Tile, Fissured Pattern   | None Detected   |          | WB             |
| 13         | 4-Dec-14    | Basement - Room 4<br>- Drywall Mud Compound On East Wall Above Suspended Ceiling  | None Detected   |          | WB             |
| 14         | 4-Dec-14    | Basement - Room 6<br>- Black Mastic On Fiberglass On Fresh Air Intake Duct On South Wall                                    | None Detected   |          | WB             |

***Bersch & Associates Ltd.***

B67BAL04

Box 3568

Humboldt, Sask. S0K 2A0

BULK SAMPLE ANALYSIS REPORT

**PROJECT NO. B67.14**

**CLIENT: City of Saskatoon**

**Infrastructure Services - Facilities Branch**

**Contact: Brent Anderson**

**Location: J.S. Wood Library - 1801 Landsdowne Avenue, Saskatoon, SK.**

| NO. | DATE     | SAMPLE INFORMATION   | ASBESTOS      | % | ANALYST |
|-----|----------|--|---------------|---|---------|
| 15  | 4-Dec-14 | Basement - Room 1<br>- Duct Expansion Gasket On Overhead Fan | None Detected |   |         |
| 16  | 4-Dec-14 | Main Floor - East Stairwell<br>- 12" x 12" Ceiling Tile      | None Detected |   |         |

**APPENDIX II**

**ASBESTOS SURVEY DATABASE**

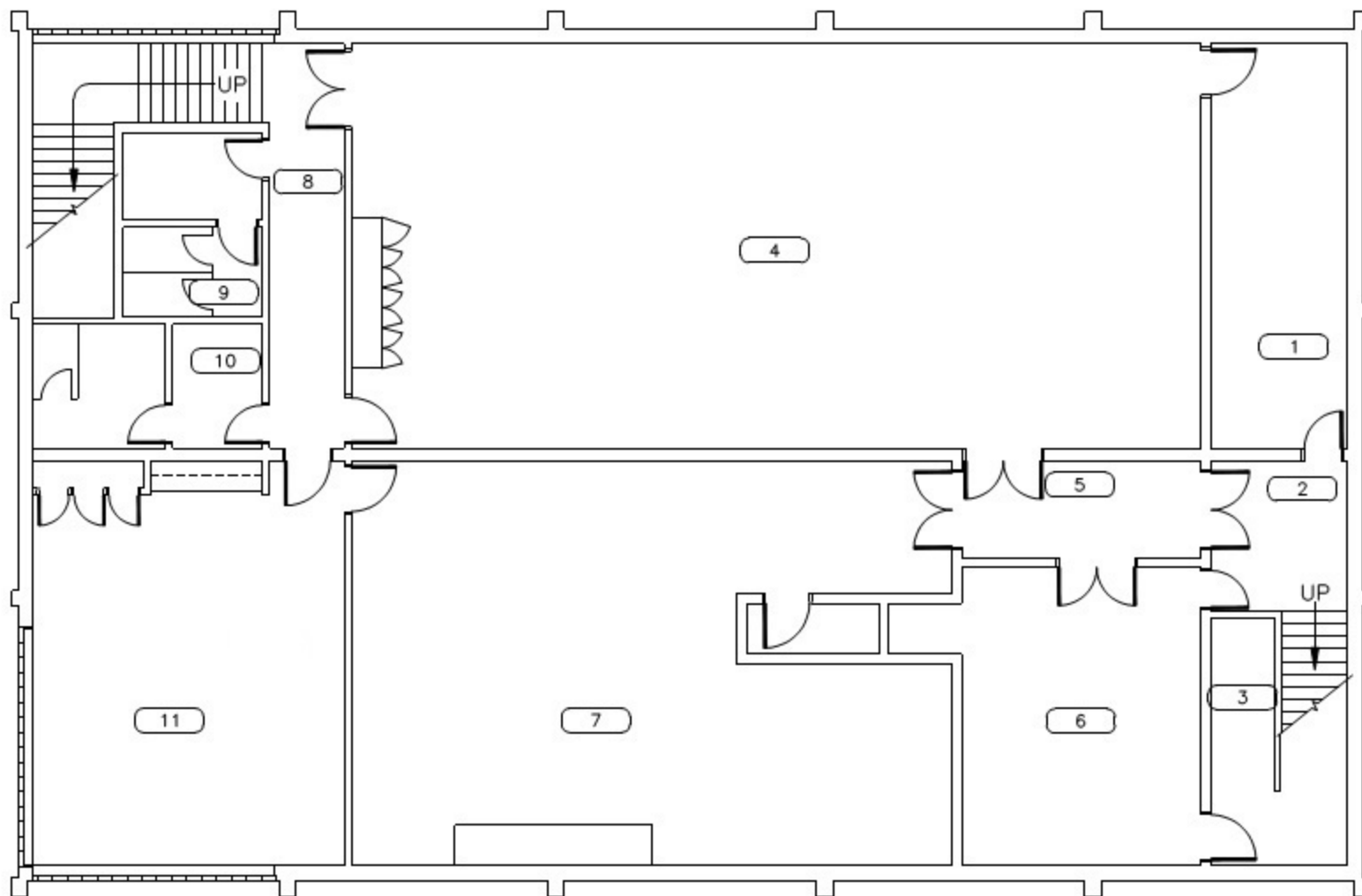
| J.S. Wood Library |             |                         | Bersch Associates Ltd. |            |               |               |               |                        |           |          |   |   |                           |                    |  |  |  |  |
|-------------------|-------------|-------------------------|------------------------|------------|---------------|---------------|---------------|------------------------|-----------|----------|---|---|---------------------------|--------------------|--|--|--|--|
|                   |             |                         | SAMPLE DATA            |            |               |               |               |                        |           |          |   |   |                           |                    |  |  |  |  |
| Floor             | Room Number | Use                     | SAMPLE SAMPLE REP      | Sample ID  | Date DD/MM/YY | Asbestos Type | % of Asbestos | Tradename ACM Product  | Condition | Priority | Description of Sample Location  | Asbestos Content In Area                          | Potential for Disturbance | Recommended Action | Comments   |  |  |  |
| B                 |             | East Stairwell          |                        |            |               |               |               |                        |           |          |   | No Accessible Asbestos Containing Materials (ACM) |                           |                    |  |  |  |  |
| B                 |             | West Stairwell          |                        |            |               |               |               |                        |           |          |   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 1           | Storage                 | Sample                 | B67-ASB.15 | 04-Dec-14     |               | None          | Expansion Gasket       |           |          | Basement - Room 1<br>- Duct Expansion Gasket On Overhead Fan  | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 2           | Corridor                |                        |            |               |               |               |                        |           |          |   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 3           | Mechanical              |                        |            |               |               |               |                        |           |          |   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 4           | Meeting                 | Sample                 | B67-ASB.13 | 04-Dec-14     |               | None          | Drywall Mud Compound   |           |          | Basement - Room 4<br>- Drywall Mud Compound On East Wall Above Suspended Ceiling  | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 5           | Corridor                | Sample                 | B67-ASB.11 | 04-Dec-14     |               | None          | Plaster Material       |           |          | Basement - Room 5<br>- White & Brown Coat Of Wall Plaster Above Suspended Ceiling At Entry To #2 Stairwell                  | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 5           | Corridor                | Sample                 | B67-ASB.12 | 04-Dec-14     |               | None          | Ceiling Tiles          |           |          | Basement - Room 5<br>- 2' x 4' Suspended Ceiling Tile, Fissured Pattern   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 6           | Mechanical              | Sample                 | B67-ASB.14 | 04-Dec-14     |               | None          | Mastic                 |           |          | Basement - Room 6<br>- Black Mastic On Fiberglass On Fresh Air Intake Duct On South Wall                                    | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 7           | Storage                 | Sample                 | B67-ASB.7  | 04-Dec-14     |               | None          | Duct Sealant Material  |           |          | Basement - Room 7<br>- Gray Duct Joint Sealer   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 7           | Storage                 | Sample                 | B67-ASB.8  | 04-Dec-14     |               | None          | Lineal Pipe Insulation |           |          | Basement - Room 7<br>- Lineal Pipeline Insulation On Small Domestic Water Line Above Ceiling Access, Above Rolling Shelving | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 7           | Dumbwaiter Service Room | Sample                 | B67-ASB.9  | 04-Dec-14     |               | None          | Parging Material       |           |          | Basement - Room 7 -<br>Dumbwaiter Service Room<br>- White & Brown Coat Of First Layer Of Ceiling Material                   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 7           | Dumbwaiter Service Room | Sample                 | B67-ASB.10 | 04-Dec-14     |               | None          | Drywall                |           |          | Basement - Room 7 -<br>Dumbwaiter Service Room<br>- Drywall Material Of Second Layer Of Ceiling Material                    | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 8           | Corridor                |                        |            |               |               |               |                        |           |          |   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 9           | Washroom                |                        |            |               |               |               |                        |           |          |   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 10          | Washroom                |                        |            |               |               |               |                        |           |          |   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 11          | Reading                 | Sample                 | B67-ASB.1  | 13-May-13     |               | None          | Ceiling Tiles          |           |          | Basement - Room 11<br>- 12" x 12" Perforated Ceiling Tile Above Suspended Ceiling   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 11          | Reading                 | Sample                 | B67-ASB.4  | 04-Dec-14     |               | None          | Plaster Material       |           |          | Basement - Room 11<br>- White Finish Coat On Bulkhead Above Sink  | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 11          | Reading                 | Sample                 | B67-ASB.5  | 04-Dec-14     |               | None          | Parging Material       |           |          | Basement - Room 11<br>- Brown Coat Beneath Skim Coat On Bulkhead Above Sink   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| B                 | 11          | Reading                 | Sample                 | B67-ASB.6  | 04-Dec-14     |               | None          | Vinyl Floor Tile       |           |          | Basement - Room 11<br>- 12" x 12" Floor Tile, Beige With Tan Brush Marks  | No Accessible ACM                                 |                           |                    |  |  |  |  |
| M                 |             | East Stairwell          | Sample                 | B67-ASB.16 | 04-Dec-14     |               | None          | Ceiling Tiles          |           |          | Main Floor - East Stairwell<br>- 12" x 12" Ceiling Tile   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| M                 | 12          | Library                 | Sample Rep             | B67-ASB.2  | 13-May-13     | Chrysotile    | 1-5%          | Vinyl Asbestos Tile    | Poor      | 1        | Main Floor - Room 16<br>- 9" x 9" Floor Tile, Gray With White Streak  | Vinyl Asbestos Floor Tile                         | Moderate                  | Repair/Remove      | Bersch recommends replacing all the floor tile due to damages throughout. At minimum the damaged tiles should be replaced. |  |  |  |
| M                 | 13          | Custodial               |                        |            |               |               |               |                        |           |          |   | No Accessible ACM                                 |                           |                    |  |  |  |  |
| M                 | 15          | Office                  | Sample Rep             | B67-ASB.2  | 13-May-13     | Chrysotile    | 1-5%          | Vinyl Asbestos Tile    | Mod/Good  | 3        | Main Floor - Room 16<br>- 9" x 9" Floor Tile, Gray With White Streak  | Vinyl Asbestos Floor Tile                         | Low                       | Manage             | Vinyl Asbestos Floor Tile is located beneath the carpet.   |  |  |  |

| J.S. Wood Library |             |                | Bersch Associates Ltd. |           |               |               |               |                       |           |          |  |                           |                           |                    |   |  |
|-------------------|-------------|----------------|------------------------|-----------|---------------|---------------|---------------|-----------------------|-----------|----------|--|---------------------------|---------------------------|--------------------|---|--|
|                   |             |                | SAMPLE DATA            |           |               |               |               |                       |           |          |  |                           |                           |                    |   |  |
| Floor             | Room Number | Use            | SAMPLE REP             | Sample ID | Date DD/MM/YY | Asbestos Type | % of Asbestos | Tradename ACM Product | Condition | Priority | Description of Sample Location                                       | Asbestos Content In Area  | Potential for Disturbance | Recommended Action | Comments  |  |
| M                 | 16          | Office         | Sample                 | B67-ASB.2 | 13-May-13     | Chrysotile    | 1-5%          | Vinyl Asbestos Tile   | Poor      | 1        | Main Floor - Room 16<br>- 9" x 9" Floor Tile, Gray With White Streak | Vinyl Asbestos Floor Tile | Moderate                  | Repair/Remove      | Bersch recommends replacing all the floor tile due to damages throughout. At minimum the damaged tiles should be replaced along the south wall. |  |
| M                 | 17          | Staff Room     | Sample Rep             | B67-ASB.2 | 13-May-13     | Chrysotile    | 1-5%          | Vinyl Asbestos Tile   | Moderate  | 3        | Main Floor - Room 16<br>- 9" x 9" Floor Tile, Gray With White Streak | Vinyl Asbestos Floor Tile | Low                       | Manage             |   |  |
| M                 | 18          | Washroom       | Sample Rep             | B67-ASB.2 | 13-May-13     | Chrysotile    | 1-5%          | Vinyl Asbestos Tile   | Poor/Mod  | 1        | Main Floor - Room 16<br>- 9" x 9" Floor Tile, Gray With White Streak | Vinyl Asbestos Floor Tile | Moderate                  | Remove             | Removal of all the floor tile is recommended.   |  |
| M                 | 19          | Staff Room     | Sample Rep             | B67-ASB.2 | 13-May-13     | Chrysotile    | 1-5%          | Vinyl Asbestos Tile   | Moderate  | 1        | Main Floor - Room 16<br>- 9" x 9" Floor Tile, Gray With White Streak | Vinyl Asbestos Floor Tile | Moderate                  | Repair/Remove      | Bersch recommends replacing all the floor tile due to damages throughout. At minimum the damaged tiles should be replaced.                      |  |
| M                 | 20          | Vestibule      |                        |           |               |               |               |                       |           |          |  | No Accessible ACM         |                           |                    |   |  |
| M                 | 21          | West Stairwell |                        |           |               |               |               |                       |           |          |  | No Accessible ACM         |                           |                    |   |  |
| M                 |             | Exterior       | Sample                 | B67-ASB.3 | 13-May-13     |               | None          | Parging Material      |           |          | Exterior<br>- Parging On Front Entry Overhang                        | No Accessible ACM         |                           |                    |   |  |

**APPENDIX III**

**FLOOR PLANS**

- GENERAL NOTES:
1. All dimensions are in millimetres
  2. Drawings are not to be scaled.
  3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
  4. Verify site conditions and location of all utilities prior to the start of construction.
  5. Report all discrepancies to the Consultant.
  6. If in doubt, ask.



| REV | ISSUED FOR      | DATE     |
|-----|-----------------|----------|
| A   | ASBULT 652-2/04 | 08/11/07 |

| DESIGNED BY | CHECKED BY | DATE | APPROVED BY |
|-------------|------------|------|-------------|
|             |            |      |             |

| SCALE | DATE     |
|-------|----------|
| 1:100 | 08/11/07 |

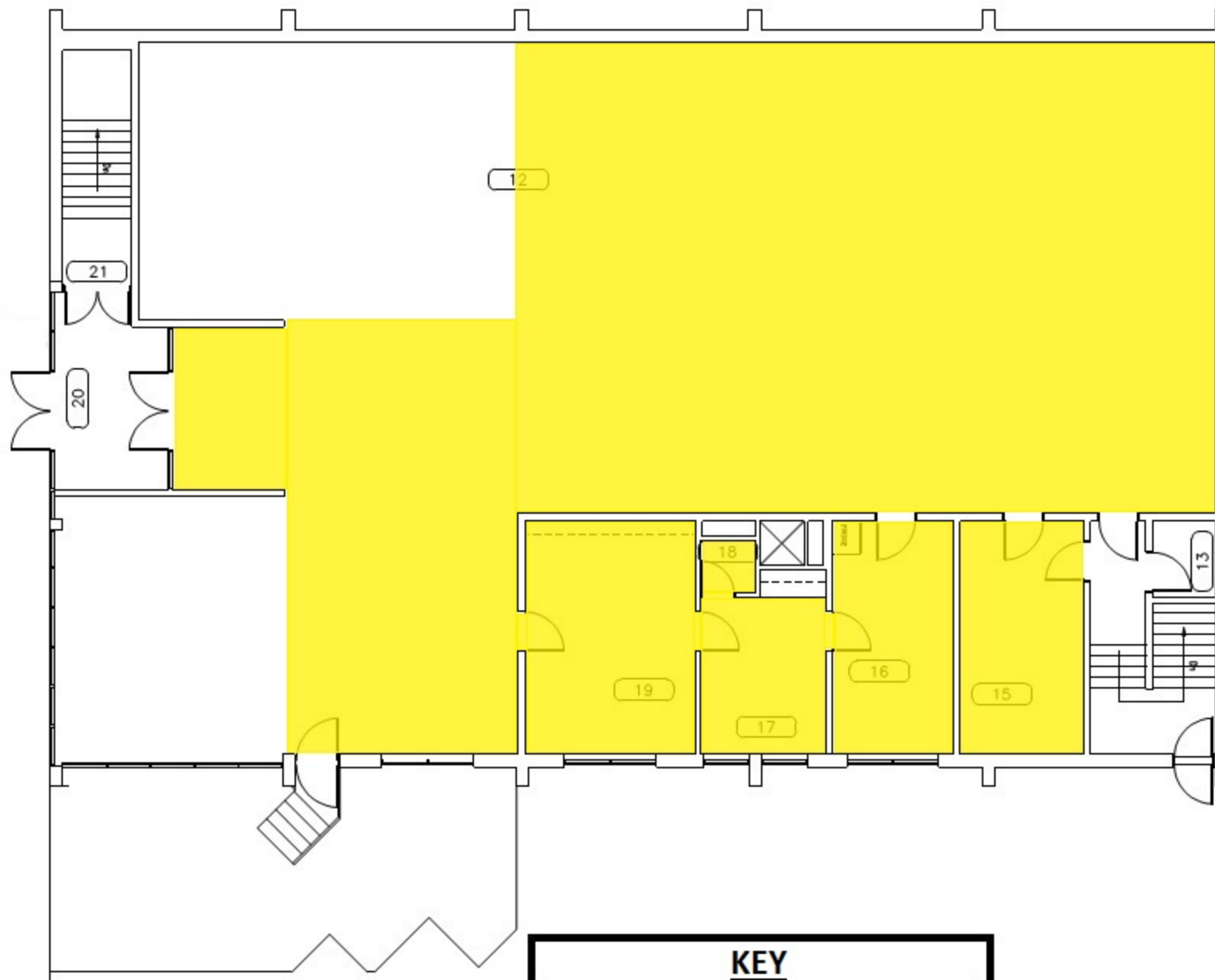
SHEET NAME: asbuilt

**Lower Floor  
Base Plan**


**PROJECT TITLE  
652  
J.S. Wood  
Library**

| PROJECT NO. | DATE |
|-------------|------|
| 652-2-04    | 0407 |

- GENERAL NOTES:
1. All dimensions are in millimetres.
  2. Drawings are not to be scaled.
  3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
  4. Verify site conditions and location of all utilities prior to the start of construction.
  5. Report all discrepancies to the Consultant.
  6. If in doubt, ask.



**KEY**

 Vinyl Asbestos Floor Tile

|     |            |      |
|-----|------------|------|
| REV | ISSUED FOR | DATE |
|-----|------------|------|

|             |          |            |             |
|-------------|----------|------------|-------------|
| DESIGNED BY | DRAWN BY | CHECKED BY | APPROVED BY |
|-------------|----------|------------|-------------|

|       |            |
|-------|------------|
| SCALE | DATE       |
| 1:100 | 05/10/2004 |

|              |        |
|--------------|--------|
| PROJECT NAME | Author |
|--------------|--------|

**Main Floor  
Base Plan**

**652  
J.S. Wood  
Library**

|             |       |
|-------------|-------|
| PROJECT NO. | SHEET |
|-------------|-------|

|          |   |
|----------|---|
| REV. NO. | ▲ |
|----------|---|



***BERSCH CONSULTING LTD.***

March 3<sup>rd</sup>, 2017

The City of Saskatoon  
222 3<sup>rd</sup> Avenue North  
Saskatoon, SK  
S7K 0J5

**ATTENTION: Karen Sinclair**

**SUBJECT: Bulk Sample Analysis Report – J.S. Woods Library**

Please find attached our laboratory's results for the bulk samples collected March 1<sup>st</sup>, 2017 from J.S. Woods Library located at 1801 Landsdowne Avenue in Saskatoon, SK. The samples were analyzed for the identification of asbestos. Asbestos **was not** detected within the samples.

The results for the samples submitted were obtained by examination in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as less than 1% by volume.

This test report relates only to the materials sent for examination and any use or extension of the information by the client of these results is the responsibility of the client.

If any questions arise on the results of the attached information, please contact our office. Thank you for this opportunity of service!

Sincerely,



Mitch Webber  
Bersch Consulting Ltd.

File No. – B67BLC01G

**Bersch Consulting Ltd.**

B67BAC01G

244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.17****CLIENT: CITY OF SASKATOON****CONTACT: KAREN SINCLAIR****LOCATION: J.S. WOODS LIBRARY - 1801 LANDSDOWNE AVE., SASKATOON, SK.**

| <b>NO.</b> | <b>DATE</b> | <b>SAMPLE INFORMATION</b>  | <b>ASBESTOS</b>         | <b>%</b> | <b>ANALYST</b> |
|------------|-------------|--|-------------------------|----------|----------------|
| 1a         | 1-Mar-17    | 117 - Staff Room<br>- White Wall Plaster Skim Coat                       | No Asbestos<br>Detected |          | WB             |
| 1b         | 1-Mar-17    | 117 - Staff Room<br>- Brown Wall Plaster Base Coat                       | No Asbestos<br>Detected |          | WB             |
| 2a         | 1-Mar-17    | 117 - Staff Room<br>- 1' x 1' White Ceiling Tile Above Suspended Ceiling | No Asbestos<br>Detected |          | WB             |
| 2b         | 1-Mar-17    | 117 - Staff Room<br>- Brown Ceiling Tile Mastic                          | No Asbestos<br>Detected |          | WB             |
| 3          | 1-Mar-17    | 117 - Staff Room<br>- 2' x 4' Square Pattern Ceiling Tile                | No Asbestos<br>Detected |          | WB             |